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SARDAR PATEL UNIVERSITY
M. Sc.(Information Technology) Semester – I Examinations, 2018
PS01CINT25: Systems Analysis and Design

Date: 02/11/2018, Friday   Time: 10:00 AM to 01:00 PM   Marks: 70

Q-1   Select the most appropriate answer for the following questions: [08]

1. _____ is a set of components working together for common goal.
   (a) Decision makers
   (b) System
   (c) Data repository
   (d) None of these

2. _____ is requirements documentation technique.
   (a) Procedure
   (b) Action
   (c) Program
   (d) None of these

3. _____ is an example of typical transaction processing system.
   (a) Students attendance system
   (b) Summary report of Web log
   (c) Business procedure scheduling
   (d) All of these

4. Requirement _____ is a mixed blessing.
   (a) Anticipation
   (b) Specification
   (c) Investigation
   (d) None of these

5. _____ feasibility study checks technical requirements of the system.
   (a) Economical
   (b) Technical
   (c) Operational
   (d) None of these

6. _____ is a smallest individual unit of the system which cannot be divided further.
   (a) Subsystem
   (b) System
   (c) Basic component
   (d) None of these

7. _____ is a repository of all data related to the system.
   (a) Constant
   (b) Integrated tool
   (c) Development tool
   (d) None of these

8. _____ is a kind of physical object.
   (a) Logic
   (b) Boundary
   (c) Tool
   (d) None of these

(1)   (P.T.O.)

Q-2 **Answer the following questions:** *(ANY SEVEN)* [14]
1. Draw Data Pyramid.
2. Differentiate between open system and closed system.
3. Define MIS. Give an example of it.
4. Define: Data and Information.
5. What is system prototype method?
6. What is (i) vendor and (ii) in house training?
7. List benefits of data dictionary.
8. List methods of time estimation. Explain *ANY ONE* in brief.
9. Differentiate between verification and validation.

Q-3[A] What is SDLC? List and discuss its phases in brief. [06]
[B] Write a short note on application development portfolio. [06]

OR

[B] List all fact finding techniques for requirements gathering. Explain *ANY TWO* in brief. [06]

Q-4[A] Define System Analyst. Discuss various duties of system analyst in organization. [06]
[B] Draw all symbols of DFD with proper labels. List different rules used in designing DFDs. [06]

OR

[B] Draw an FDD, context level DFD and next level DFD for ATM system. [06]

Q-5[A] List and discuss various strategies used in prototype development. [06]
[B] List and discuss front end tools and back end tools. [06]

OR

[B] Explain CASE tools in detail. Also write benefits of using CASE tools. [06]

Q-6[A] List various system conversion methods. Explain *ANY TWO* of them in detail. [06]
[B] Explain: Input design and Output design. [06]

OR

[B] Explain post implementation review in detail. [06]

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